

Hurricane Michael QuickLook Posted: 00:00 EDT 10/11/2018

NOAA and NOAA Partnership Stations Relative to the Storm 10/12/2018 8 AM 10/11/2018 8 PM Duck, NC Oregon Inlet, NC 10/11/20188AM Hatteras, NC Apalachicola, FL Panama City, FL Charleston, SC Panama City Beach, FL 10/10/2013 11 PM Fort Pulaski, GA Pensacola, FL **USCG Sector Mobile, AL** Fernandina Beach Shell Beach, LA Cedar Key, FL Bay Waveland, MS Clearwater Beach, FL Pascagoula, MS Old Port Tampa, FL Dauphin Island, AL St. Petersburg, FL Active Stations Extent TS Force Winds Extent Hurricane Force Winds Storm Surge Warning 1:12,500,000 Storm Surge Watch

Storm Analysis

As of 10/11/2018 00:00 EDT, water levels at stations along the Gulf of Mexico coastline are falling. Measured water levels from central Florida to Louisiana range from 1.5 to 2.5 feet above tidal predictions as Hurricane Michael moves further north and inland.

Winds around the region are reading values between 10 to 20 knots with gusts up to 25 knots. Winds speeds are decreasing around where Hurricane Michael made landfall (near Panama City, FL). Barometric pressure has returned to normal levels in most of the gulf and is starting to fall slightly farther north in North Carolina.

Water Level and Meteorological plots available below are updated automatically. A line denoting <u>Mean Higher High</u> <u>Water</u> (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional real-time and historical inundation information for select stations affected by this storm, please visit <u>Coastal Inundation Dashboard</u>. For additional data, please see the <u>Center for Operational Oceanographic Products & Services</u> website.

For more information or archived products and reports, please visit the **Storm QuickLook** Homepage.

Analyst: LAH

Select National Hurricane Center Advisory

BULLETIN

Hurricane Michael Advisory Number 18 NWS National Hurricane Center Miami FL 1100 PM EDT Wed Oct 10 2018

...MICHAEL WEAKENING AS IT MOVES ACROSS SOUTH-CENTRAL GEORGIA...
...STORM FLOODING GRADUALLY DECREASING ALONG THE GULF COAST...

SUMMARY OF 1100 PM EDT...0300 UTC...INFORMATION

LOCATION...32.1N 83.8W
ABOUT 45 MI...70 KM SSW OF MACON GEORGIA
MAXIMUM SUSTAINED WINDS...75 MPH...120 KM/H
PRESENT MOVEMENT...NE OR 45 DEGREES AT 20 MPH...31 KM/H
MINIMUM CENTRAL PRESSURE...970 MB...28.65 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The Hurricane Warning for the Gulf coast of Florida has been discontinued. The Storm Surge Warning has been discontinued west of Panama City and southeast of Keaton Beach.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Storm Surge Warning is in effect for...

* Panama City Florida to Keaton Beach Florida

A Storm Surge Watch is in effect for...

* Ocracoke Inlet North Carolina to Duck North Carolina

A Tropical Storm Warning is in effect for...

- * North of Fernandina Beach Florida to Duck North Carolina
- * Pamlico and Albemarle Sounds

A Storm Surge Warning means there is a danger of life-threatening inundation, from rising water moving inland from the coastline. For a depiction of areas at risk, please see the National Weather Service Storm Surge Watch/Warning Graphic, available at hurricanes.gov.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

A Storm Surge Watch means there is a possibility of life- threatening inundation, from rising water moving inland from the coastline.

Interests elsewhere across the southeastern United States should monitor the progress of Michael.

For storm information specific to your area, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office.

DISCUSSION AND OUTLOOK

At 1100 PM EDT (0300 UTC), the center of Hurricane Michael was located by NOAA Doppler weather radars near latitude 32.1 North, longitude 83.8 West. Michael is moving toward the northeast near 20 mph (31 km/h) and this general motion should continue tonight. A motion toward the northeast at a faster forward speed is expected on Thursday through Friday night. On the forecast track, the core of Michael will move across southwestern and central Georgia overnight, and move through east-central Georgia Thursday morning. Michael will then move northeastward across the southeastern United States through late Thursday, and then move off the Mid-Atlantic coast by early Friday.

Maximum sustained winds have decreased to near 75 mph (120 km/h) with higher gusts. Michael will steadily weaken as it crosses the southeastern United States through Thursday night, becoming a tropical storm by Thursday morning. Michael is forecast to re-strengthen some Thursday night and Friday when it moves off the east coast of the United States and becomes a post-tropical cyclone on Friday.

Hurricane-force winds extend outward up to 30 miles (45 km) from the center and tropical-storm-force winds extend outward up to 160 miles.

The estimated minimum central pressure is 970 mb (28.65 inches).

HAZARDS AFFECTING LAND

STORM SURGE: Water levels are beginning to recede in some locations, however, the combination of a dangerous storm surge and the tide will continue to cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water has the potential to reach the following heights above ground if peak surge occurs at the time of high tide...

Panama City FL to Keaton Beach FL...3-5 ft Sound side of the North Carolina Outer Banks from Ocracoke Inlet to Duck...2-4 ft WIND: Tropical storm and hurricane conditions are occurring over portions of the Florida Panhandle, southeastern Alabama, and southwestern Georgia and will continue to spread inland over south-central Georgia tonight.

Tropical storm conditions are expected to spread northward within the warning area along the southeast U.S. coast beginning tonight through Friday.

Gale- to storm-force winds are expected over portions of southeastern Virginia, extreme northeastern North Carolina, and the Delmarva Peninsula as Michael becomes post-tropical off the Mid-Atlantic coast late Thursday night or Friday.

RAINFALL: Michael is expected to produce the following rainfall amounts into Friday...

Georgia, the Carolinas, and into Virginia...3 to 6 inches, with isolated maximum amounts of 8 inches. This rainfall could lead to life-threatening flash floods.

Florida...an additional inch of rain is possible as the hurricane moves away from the state eastern Mid-Atlantic, southern New England coast...1 to 3 inches.

TORNADOES: Isolated tornadoes remain possible tonight and Thursday morning from Georgia into the Carolinas.

SURF: Swells generated by Michael will affect the coasts of the eastern, northern, and western Gulf of Mexico through Thursday morning. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next intermediate advisory at 200 AM EDT. Next complete advisory at 500 AM EDT.

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Forecaster Stewart

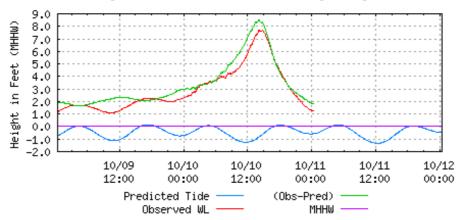
For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: Apalachicola - Water Level, Apalachicola - Winds, Apalachicola - Barometric, Panama City Beach - Water Level, Panama City Beach - Barometric, Panama City - Water Level, Panama City - Barometric, Cedar Key - Water Level, Cedar Key - Winds, Cedar Key - Barometric, Clearwater Beach - Water Level, Clearwater Beach - Barometric, Old Port Tampa - Water Level, Old Port Tampa - Winds, St. Petersburg, Tampa Bay - Water Level, St. Petersburg, Tampa Bay - Winds, Pensacola - Water Level, Pensacola - Winds, Pensacola - Barometric, Dauphin Island - Water Level, Dauphin Island - Winds, Pascagoula NOAA Lab - Water Level, Bay Waveland Yacht Club - Water Level, Bay Waveland Yacht Club - Water Level, Fort Pulaski - Water Level, Charleston, Cooper River Level, Shell Beach - Winds, Fernandina Beach - Water Level, USCG Station Hatteras - Winds, Duck - Water Level, Duck - Water Level, Oregon Inlet Marina - Winds, Duck - Water Level, Duck - Duck - Water Level, Duck - Duck - Water Level, Duck - Water Level,

Winds

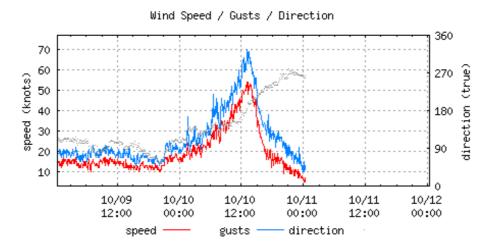
NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/11/2018 00:24 (EDT). Data relative to MHHW Observed: 1.25 ft. Predicted: -0.56 ft. Residual: 1.81 ft. Historical Maximum Water Level: Jul 10 2005, 6.43 ft. Next High Tide: 10/11/2018 04:58 (EDT), 0.13 ft.

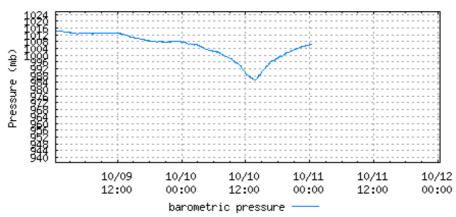
NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



Last Observed Sample: 10/11/2018 00:24 (EDT) Wind Speed: 7 knots Gusts: 12 knots Direction: 263° T

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

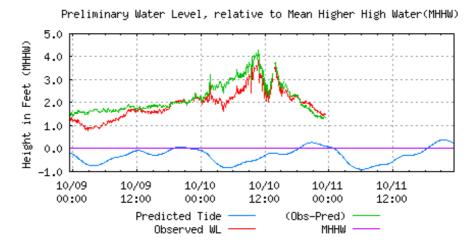
Barometric Pressure



Last Observed Sample: 10/11/2018 00:24 (EDT)

Barometric Pressure: 1006.5 mb

NOAA/NOS/CO-OPS 8729210 Panama City Beach, FL



Last Observed Sample: 10/10/2018 23:24 (CDT). Data relative to MHHW Observed: 1.38 ft. Predicted: 0.10 ft. Residual: 1.28 ft. Historical Maximum Water Level: Oct 4 1995, 7.07 ft. Next High Tide: 10/11/2018 21:26 (CDT), 0.38 ft.

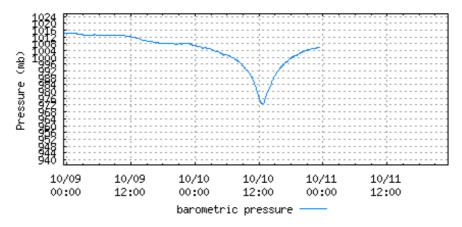
NOAA/NOS/CO-OPS 8729210 Panama City Beach, FL

Wind Speed / Gusts / Direction 360 70 60 270 direction (true) speed (knots) 50 40 180 30 90 20 10 10/09 00:00 10/10 10/11 10/11 12:00 00:00 12:00 00:00 12:00 gusts direction speed

Last Observed Sample: 10/10/2018 23:24 (CDT) Wind Speed: 24 knots Gusts: 29 knots Direction: 289° T

NOAA/NOS/CO-OPS 8729210 Panama City Beach, FL

Barometric Pressure

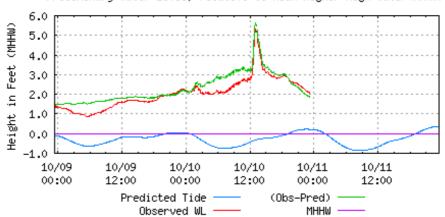


Last Observed Sample: 10/10/2018 23:24 (CDT)

Barometric Pressure: 1005.9 mb

NOAA/NOS/CO-OPS 8729108 Panama City, FL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)

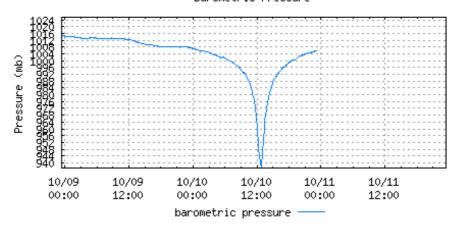


Last Observed Sample: 10/10/2018 23:18 (CDT). Data relative to MHHW Observed: 2.06 ft. Predicted: 0.22 ft. Residual: 1.84 ft. Historical Maximum Water Level: Oct 4 1995, 5.72 ft.

Next High Tide: 10/11/2018 22:59 (CDT), 0.35 ft.

NOAA/NOS/CO-OPS 8729108 Panama City, FL

Barometric Pressure

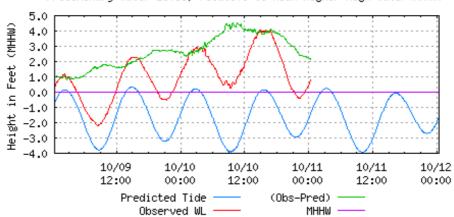


Last Observed Sample: 10/10/2018 23:18 (CDT)

Barometric Pressure: 1005.5 mb

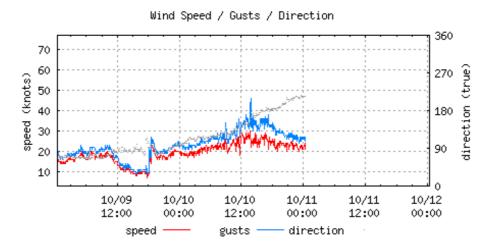
NOAA/NOS/CO-OPS 8727520 Cedar Key, FL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/11/2018 00:24 (EDT). Data relative to MHHW Observed: 0.78 ft. Predicted: -1.38 ft. Residual: 2.16 ft. Historical Maximum Water Level: Sep 2 2016, 5.98 ft. Next High Tide: 10/11/2018 03:18 (EDT), 0.24 ft.

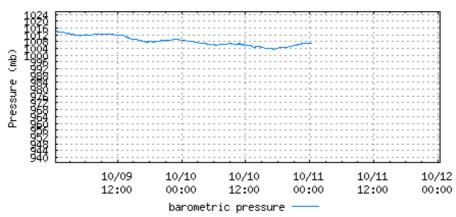
NOAA/NOS/CO-OPS 8727520 Cedar Key, FL



Last Observed Sample: 10/11/2018 00:24 (EDT) Wind Speed: 24 knots Gusts: 27 knots Direction: 215° T

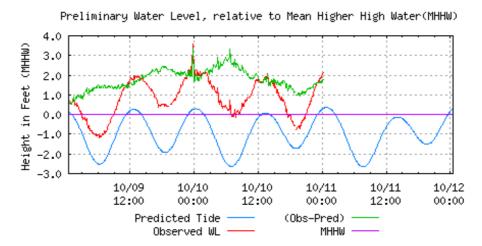
NOAA/NOS/CO-OPS 8727520 Cedar Key, FL

Barometric Pressure



Last Observed Sample: 10/11/2018 00:24 (EDT)
Barometric Pressure: 1006.9 mb

NOAA/NOS/CO-OPS 8726724 Clearwater Beach, FL



Last Observed Sample: 10/11/2018 00:12 (EDT). Data relative to MHHW Observed: 2.11 ft. Predicted: 0.32 ft. Residual: 1.79 ft. Historical Maximum Water Level: Mar 13 1993, 4.00 ft. Next High Tide: 10/11/2018 00:46 (EDT), 0.36 ft.

NOAA/NOS/CO-OPS 8726724 Clearwater Beach, FL

Wind Speed / Gusts / Direction 360 70 60 270 direction (true) speed (knots) 50 40 180 30 90 20 10 10/12 10/09 10/10 10/11 10/11 00:00 12:00 00:00 12:00 00:00 12:00

Last Observed Sample: 10/11/2018 00:12 (EDT) Wind Speed: 20 knots Gusts: 24 knots Direction: 201° T

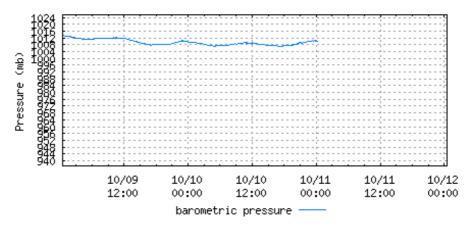
gusts -

speed

direction

NOAA/NOS/CO-OPS 8726724 Clearwater Beach, FL

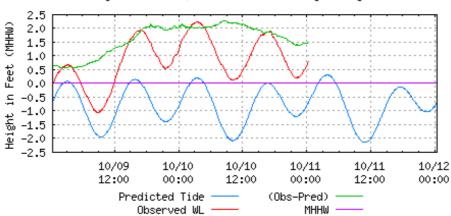
Barometric Pressure



Last Observed Sample: 10/11/2018 00:12 (EDT)
Barometric Pressure: 1010.0 mb

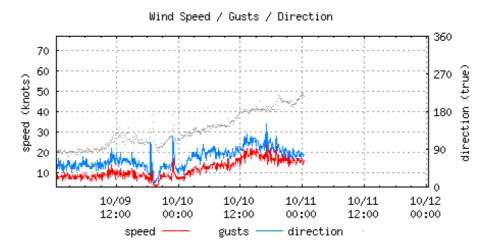
NOAA/NOS/CO-OPS 8726607 Old Port Tampa, FL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/11/2018 00:24 (EDT). Data relative to MHHW Observed: 0.83 ft. Predicted: -0.67 ft. Residual: 1.50 ft. Historical Maximum Water Level: Oct 8 1996, 3.60 ft. Next High Tide: 10/11/2018 03:50 (EDT), 0.31 ft.

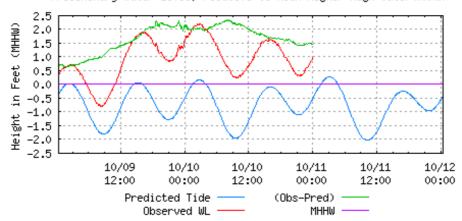
NOAA/NOS/CO-OPS 8726607 Old Port Tampa, FL



Last Observed Sample: 10/11/2018 00:24 (EDT) Wind Speed: 17 knots Gusts: 20 knots Direction: 219° T

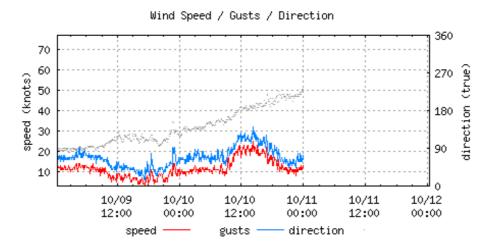
NOAA/NOS/CO-OPS 8726520 St. Petersburg, Tampa Bay, FL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/11/2018 00:12 (EDT). Data relative to MHHW Observed: 1.05 ft. Predicted: -0.45 ft. Residual: 1.50 ft. Historical Maximum Water Level: Aug 31 1985, 4.00 ft. Next High Tide: 10/11/2018 03:09 (EDT), 0.27 ft.

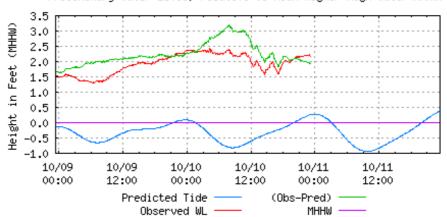
NOAA/NOS/CO-OPS 8726520 St. Petersburg, Tampa Bay, FL



Last Observed Sample: 10/11/2018 00:12 (EDT) Wind Speed: 12 knots Gusts: 16 knots Direction: 228° T

NOAA/NOS/CO-OPS 8729840 Pensacola, FL

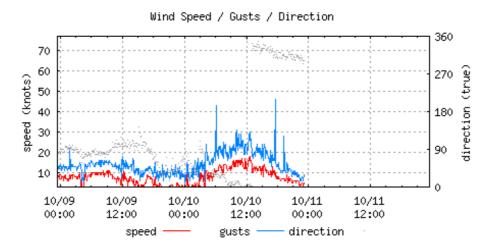
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/10/2018 23:12 (CDT). Data relative to MHHW Observed: 2.18 ft. Predicted: 0.26 ft. Residual: 1.92 ft. Historical Maximum Water Level: Sep 16 2004, 9.54 ft.

Next High Tide: 10/10/2018 23:58 (CDT), 0.28 ft.

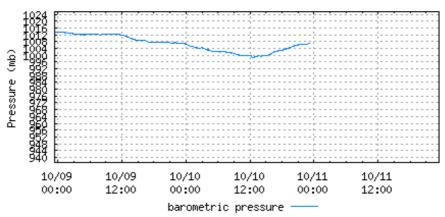
NOAA/NOS/CO-OPS 8729840 Pensacola, FL



Last Observed Sample: 10/10/2018 23:12 (CDT) Wind Speed: 5 knots Gusts: 8 knots Direction: 294° T

NOAA/NOS/CO-OPS 8729840 Pensacola, FL

Barometric Pressure

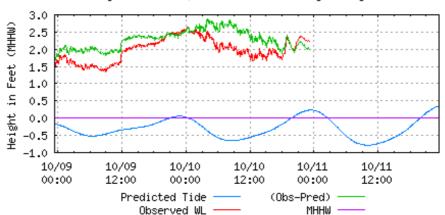


Last Observed Sample: 10/10/2018 23:12 (CDT)

Barometric Pressure: 1006.8 mb

NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL

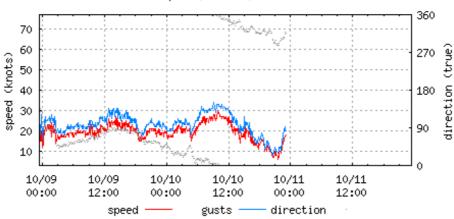
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/10/2018 23:12 (CDT). Data relative to MHHW Observed: 2.17 ft. Predicted: 0.24 ft. Residual: 1.93 ft. Historical Maximum Water Level: Sep 12 1979, 7.96 ft. Next High Tide: 10/10/2018 23:23 (CDT), 0.23 ft.

NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL

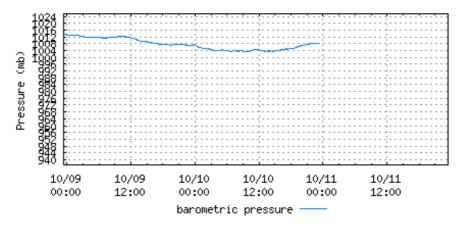
Wind Speed / Gusts / Direction



Last Observed Sample: 10/10/2018 23:12 (CDT) Wind Speed: 16 knots Gusts: 21 knots Direction: 316° T

NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL

Barometric Pressure

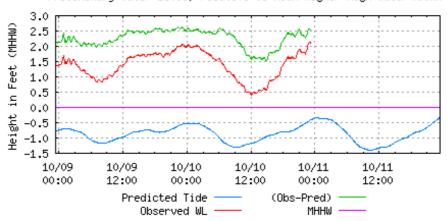


Last Observed Sample: 10/10/2018 23:12 (CDT)

Barometric Pressure: 1008.4 mb

NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL

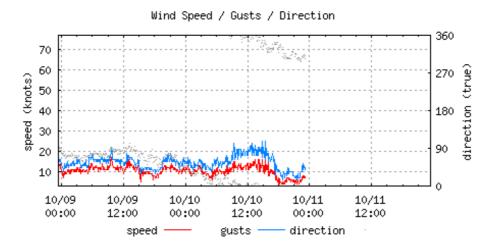
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/10/2018 23:12 (CDT). Data relative to MHHW Observed: 2.13 ft. Predicted: -0.41 ft. Residual: 2.54 ft. Historical Maximum Water Level: Oct 8 2017, 5.38 ft.

Next High Tide: 10/11/2018 00:22 (CDT), -0.35 ft.

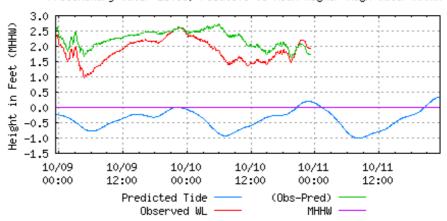
NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL



Last Observed Sample: 10/10/2018 23:12 (CDT) Wind Speed: 7 knots Gusts: 11 knots Direction: 312° T

NOAA/NOS/CO-OPS 8741533 Pascagoula NOAA Lab, MS

Preliminary Water Level, relative to Mean Higher High Water(MHHW)

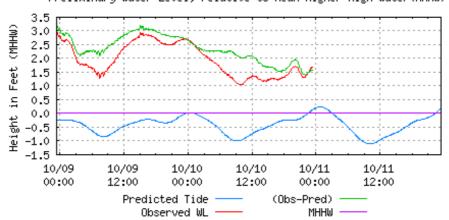


Last Observed Sample: 10/10/2018 23:06 (CDT). Data relative to MHHW Observed: 1.92 ft. Predicted: 0.20 ft. Residual: 1.72 ft. Historical Maximum Water Level: Oct 8 2017, 6.20 ft.

Next High Tide: 10/11/2018 23:19 (CDT), 0.33 ft.

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: $10/10/2018\ 23:24$ (CDT). Data relative to \underline{MHHW}

Observed: 1.70 ft. Predicted: 0.14 ft. Residual: 1.56 ft. Historical Maximum Water Level: Sep 1 2008, 9.10 ft. Next High Tide: 10/11/2018 00:45 (CDT), 0.25 ft.

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS

Wind Speed / Gusts / Direction 360 70 60 direction (true) 270 speed (knots) 50 40 180 30 90 20 10 0 10/09 10/09 10/10 10/10 10/11 10/11 00:00 12:00 00:00 12:00 00:00 12:00

Last Observed Sample: 10/10/2018 23:24 (CDT) Wind Speed: 12 knots Gusts: 16 knots Direction: 325° T

gusts -

direction

MHHW

NOAA/NOS/CO-OPS 8761305 Shell Beach, LA

Preliminary Water Level, relative to Mean Higher High Water(MHHW) 3.5 Height in Feet (MHHW) 3.0 2.5 2.0 1.5 1.0 0.5 0.0 -0.5 -1.0 10/09 10/09 10/10 10/10 10/11 10/11 00:00 12:00 12:00 12:00 00:00 00:00 Predicted Tide (Obs-Pred)

Last Observed Sample: 10/10/2018 23:24 (CDT). Data relative to MHHW Observed: 1.83 ft. Predicted: 0.00 ft. Residual: 1.83 ft. Historical Maximum Water Level: Aug 29 2012, 9.37 ft. Next High Tide: 10/11/2018 03:46 (CDT), 0.28 ft.

Observed WL

NOAA/NOS/CO-OPS 8761305 Shell Beach, LA

Wind Speed / Gusts / Direction 360 70 60 270 direction (true) speed (knots) 50 40 180 30 90 20 10 0 10/09 10/09 10/10 10/10 10/11 10/11 00:00

> Last Observed Sample: 10/10/2018 23:24 (CDT) Wind Speed: 21 knots Gusts: 24 knots Direction: 318° T

12:00

gusts -

00:00

direction

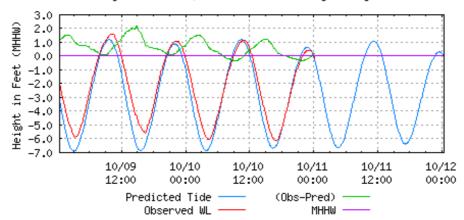
12:00

12:00

00:00

NOAA/NOS/CO-OPS 8720030 Fernandina Beach, FL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/11/2018 00:12 (EDT). Data relative to MHHW Observed: -0.16 ft. Predicted: -0.34 ft. Residual: 0.18 ft. Historical Maximum Water Level: Oct 2 1898, 6.91 ft.

Next High Tide: 10/11/2018 11:15 (EDT), 1.07 ft.

NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA

Preliminary Water Level, relative to Mean Higher High Water(MHHW) 4.0 Height in Feet (MHHW) 2.0 0.0 -2.0 -4.0 -6.0 -8.0 10/11 10/09 10/10 10/10 10/11 10/12 12:00 00:00 12:00 00:00 12:00 00:00 Predicted Tide (Obs-Pred) MHHW Observed WL

Last Observed Sample: 10/11/2018 00:12 (EDT). Data relative to MHHW Observed: 0.04 ft. Predicted: -1.60 ft. Residual: 1.64 ft. Historical Maximum Water Level: Oct 8 2016, 4.94 ft. Next High Tide: 10/11/2018 10:23 (EDT), 0.92 ft.

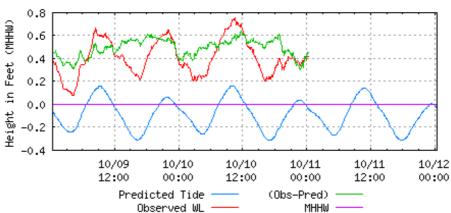
NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC

Preliminary Water Level, relative to Mean Higher High Water(MHHW) 2.0 Height in Feet (MHHW) 1.0 0.0 -1.0 -2.0 -3.0 -4.0 -5.0 -6.0 -7.0 10/09 10/12 10/10 10/10 10/11 10/11 12:00 12:00 00:00 00:00 12:00 00:00 Predicted Tide (Obs-Pred) MHHW Observed WL

Last Observed Sample: 10/11/2018 00:12 (EDT). Data relative to MHHW Observed: -0.29 ft. Predicted: -1.52 ft. Residual: 1.23 ft. Historical Maximum Water Level: Sep 21 1989, 6.76 ft. Next High Tide: 10/11/2018 10:19 (EDT), 0.84 ft.

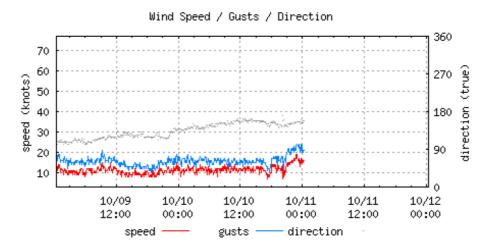
NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/11/2018 00:24 (EDT). Data relative to MHHW Observed: 0.39 ft. Predicted: -0.04 ft. Residual: 0.43 ft. Historical Maximum Water Level: Oct 9 2016, 5.76 ft. Next High Tide: 10/11/2018 10:47 (EDT), 0.15 ft.

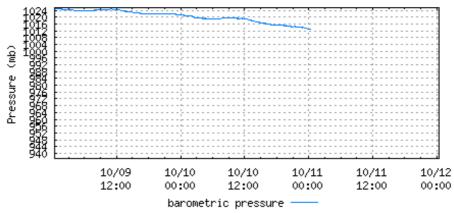
NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC



Last Observed Sample: 10/11/2018 00:24 (EDT) Wind Speed: 16 knots Gusts: 22 knots Direction: 157° T

NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC

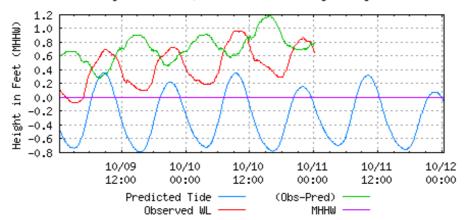
Barometric Pressure



Last Observed Sample: 10/11/2018 00:24 (EDT)
Barometric Pressure: 1012.8 mb

NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/11/2018 00:12 (EDT). Data relative to MHHW Observed: 0.64 ft. Predicted: -0.14 ft. Residual: 0.78 ft. Historical Maximum Water Level: Aug 28 2011, 6.31 ft. Next High Tide: 10/11/2018 10:07 (EDT), 0.32 ft.

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Wind Speed / Gusts / Direction 360 70 60 270 direction (true speed (knots) 50 180 40 30 90 20 10 10/09 10/11 10/12 10/10 10/11 12:00 00:00 12:00 00:00 00:00 12:00 gusts direction speed

> Last Observed Sample: 10/11/2018 00:12 (EDT) Wind Speed: 10 knots Gusts: 13 knots Direction: 144° T

NOAA/NOS/CO-OPS 8651370 Duck, NC

Preliminary Water Level, relative to Mean Higher High Water(MHHW) 2.0 Height in Feet (MHHW) 1.0 0.0 -1.0 -2.0 -3.0 -4.0 10/09 10/10 10/10 10/11 10/11 10/12 12:00 00:00 12:00 12:00 00:00 00:00 Predicted Tide (Obs-Pred) Observed WL MHHW

Last Observed Sample: 10/11/2018 00:12 (EDT). Data relative to MHHW Observed: -1.09 ft. Predicted: -1.64 ft. Residual: 0.55 ft. Historical Maximum Water Level: Sep 18 2003, 4.13 ft. Next High Tide: 10/11/2018 09:35 (EDT), 0.73 ft.

NOAA/NOS/CO-OPS 8651370 Duck, NC

70

60

> 10/09 12:00

10/10 00:00

speed (knots)

Wind Speed / Gusts / Direction

270 (ind.)

180 Upg

10/11 00:00 10/11 12:00 10/12 00:00

speed ____ gusts ____ direction Last Observed Sample: 10/11/2018 00:12 (EDT) Wind Speed: 17 knots Gusts: 19 knots Direction: 146° T

10/10 12:00

Latest Water Level Observations on MHHW

Station ID Station Name Date/Time Observed Water Level Predicted Water Tide Residual Water Level No. 10 mode of Level	24 Hour Maximum Storm Tide 7.73 ft 3.86 ft 5.31 ft 4.09 ft 2.31 ft
8729210 Panama City Beach, FL (EDT) 1.25 ft -0.56 ft 1.81 ft 7. 8729210 Panama City Beach, FL (CDT) 1.38 ft 0.10 ft 1.28 ft 3. 8729108 Panama City, FL (CDT) 2.06 ft 0.22 ft 1.84 ft 5. 8727520 Cedar Key, FL (EDT) 0.78 ft -1.38 ft 2.16 ft 4.	3.86 ft 5.31 ft 4.09 ft
8729108 Panama City Beach, FL (CDT) 8729108 Panama City, FL (CDT) 8729108 Cedar Key, FL (CDT) 1.38 ft 0.10 ft 1.28 ft 3. 10/10/2018 23:18 (CDT) 2.06 ft 0.22 ft 1.84 ft 5. 10/11/2018 00:24 (EDT) 0.78 ft -1.38 ft 2.16 ft 4.	5.31 ft 4.09 ft
8729108 Panama City, FL (CDT) 2.06 ft 0.22 ft 1.84 ft 5. 8727520 Cedar Key, FL (EDT) 0.78 ft -1.38 ft 2.16 ft 4.	4.09 ft
8/2/520 Cedar Key, FL (EDT) 0.78 ft -1.38 ft 2.16 ft 4.	
10/11/2010 00 12	2 31 ft
8726724 Clearwater Beach, FL 10/11/2018 00:12 (EDT) 2.11 ft 0.32 ft 1.79 ft 2.	2.31 11
8726607 Old Port Tampa, FL 10/11/2018 00:24 (EDT) 0.83 ft -0.67 ft 1.50 ft 2.	2.22 ft
8726520 St. Petersburg, Tampa Bay, FL (EDT) 1.05 ft -0.45 ft 1.50 ft 2.	2.21 ft
8729840 Pensacola, FL 10/10/2018 23:12 (CDT) 2.18 ft 0.26 ft 1.92 ft 2.	2.42 ft
8735180 Dauphin Island, AL 10/10/2018 23:12 (CDT) 2.17 ft 0.24 ft 1.93 ft 2.	2.65 ft
8736897 Coast Guard Sector Mobile, AL 10/10/2018 23:12 (CDT) 2.13 ft -0.41 ft 2.54 ft 2.	2.13 ft
8741533 Pascagoula NOAA Lab, MS 10/10/2018 23:06 (CDT) 1.92 ft 0.20 ft 1.72 ft 2.	2.59 ft
8747437 Bay Waveland Yacht Club, MS 10/10/2018 23:24 (CDT) 1.70 ft 0.14 ft 1.56 ft 2.	2.73 ft
8761305 Shell Beach, LA 10/10/2018 23:24 (CDT) 1.83 ft 0.00 ft 1.83 ft 3.	3.11 ft
8720030 Fernandina Beach, FL 10/11/2018 00:12 (EDT) -0.16 ft -0.34 ft 0.18 ft 1.	1.15 ft
8670870 Fort Pulaski, GA 10/11/2018 00:12 (EDT) 0.04 ft -1.60 ft 1.64 ft 1.	1.50 ft
8665530 Charleston, Cooper River Entrance, 10/11/2018 00:12 (EDT) -0.29 ft -1.52 ft 1.23 ft 1.	1.63 ft
8654467 USCG Station Hatteras, NC 10/11/2018 00:24 (EDT) 0.39 ft -0.04 ft 0.43 ft 0.	0.76 ft
8652587 Oregon Inlet Marina, NC 10/11/2018 00:12 (EDT) 0.64 ft -0.14 ft 0.78 ft 0.	0.97 ft
8651370 Duck, NC 10/11/2018 00:12 (EDT) -1.09 ft -1.64 ft 0.55 ft 1.	1.25 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS) National Oceanic and Atmospheric Administration | U.S. Department of Commerce